



Recombinant Protein L 1 (DAG2476)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Protein L contains only IgG binding domains. The albumin-binding domain as well as cell wall and cell membrane binding domains have been removed to ensure the maximum specific IgG binding capacity. The 6-His-tag on N-terminus can be used for a
Species	Virus
Purity	> 95% pure by SDS-PAGE
Conjugate	Unconjugated
Concentration	Lyoph
Buffer	Lyophilized with no additives Reconstitution in H ₂ O to a concentration of 5 gives a clear solution.
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Protein L was first isolated from the surface of bacterial species <i>Peptostreptococcus magnus</i> and was found to bind immunoglobulins through L chain interaction, from which the name was suggested. It consists of 719 amino acid residues. The molecular weight of Protein L purified from the cell walls of <i>Peptostreptococcus magnus</i> was first estimated as 95kD by SDS-PAGE in the presence of reducing agent 2-mercaptoethanol, while the molecular weight was determined to 76kD by gel chromatography in the presence of 6 M guanidine HCl. Protein L does not contain any interchain disulfide loops, nor does it consist of disulfide-linked subunits. It was an acidic molecular with a PI of 4.0. Unlike Protein A and Protein G, which bind to the Fc region of immunoglobulins (antibodies), Protein L binds antibodies through light chain interactions. Since no part of the heavy chain is involved in the binding interaction, Protein L binds a wider range of
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antibody classes than Protein A or G. Protein L binds to representatives of all antibody classes, including IgG, IgM, IgA, IgE and IgD. Single chain variable fragments (scFv) and Fab fragments also bind to Protein L.

Keywords	Protein L
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